9 479 625 120 180 205 240 265 300 325 360 385 413 445 505 TCTTGATGGCTTCACAAGACATGCAACAAAACAAAATGGAATACTGTGATGACATGAGGCA 565 594 assessing and prognosing of prostatic cancer (PC). Antibodies, optionally coupled to a cytotoxin or radioiscotope, and nucleic acids antisense to PCA3 cDNA are claimed to be useful for treating PC, while determining elevated levels of PCA3 (as RNA or protein) is useful for detecting a predisposition to development of PC, e.g. in prenaral tests. Detecting a PCA3 protein allows differentiation between malignant and benign prostatic disease, and the level of PCA3 expression allows correlation with the grade of tumour. PCA3 protein and its fragments are also claimed to be useful in vaccines for preventing PC; in drug screens for identifying specific (antiagonists (potentially useful therapeutically) 145 85 CAGATTTGAAATGAAGTCACAAAGTGAGCATTACCAATGAGGAAAAACAGACGAGAAAA CTGCTGAAATGGAGATAATTAACATCACTAGAAACAGCAAGATGACAATATAATGTCTAA AAAAGGAAGCACAGAAATCCCTGGGAGAAATGCCCGGCCGCCATCTTGGGTCATGATGA GCCTCGCCCTGTGCCTGCTTGTGAGGGAAGACATTAGAAATGAATTGATGTG Georgeaccinanderecederingiaaggagagacarragaaaareare CAGATITIGAAATGAAGTCACAAAGTGAGCATTACCAATGAGAGAAAAACAGACGAGAAAA TCTTGATGG-TTCACAAGACATGCAACAAACAAAATGGAATACTGTGATGACACGAG--C 537 AGCCAACTGGGGAGGAGAT-ACCACGGGCCAGA-GGTCAGGATTCTGGCCCTGCTGA ses eccaaecreaegaegaearaaeceaegaegaegaegaegaegaegaegaegaeregegeeregeeera GGAGATTTGTGTGGGTTTGCAGCCGAGGGAGACCAGGAAGATCTGCATGGTGGGAAAGGACC TGATGATACAGAGGTGAGAAATAAGAAAGGCTGCTGACTTTACCATCTGAGGCCACACAT rgargaracagagargagaaaraagaaaggcrgcrgacrrraccarcrgaggccacar 146 CIGCIGABATIGAGATAATTAACATCACTAGAAACAGCAAGATGACAATATAATGICTAA AAAAGGAAGCACAGAGATCCCTGGGAGAAATGCCCGGCCGCCATCTTGGGTCATCGATGA TICCITAAAGGAT-GGCAGGAAAACAGAICCIGIIGIGGAIAITITAIIIIGAACGGGATIA Trectralaggargegeaggalacagarcergregegaratrratrrealeggaltra Gaps Length 820; Sequence 820 BP; 262 A; 169 C; 191 G; 198 T; 0 U; 0 Other; Indels tch 71.5%; Score 513.2; DB 2; al Similarity 97.3%; Pred. No. 1.3e-147; 585; Conservative 0; Mismatches 9; and for studying protein-DNA interactions A 595 A 626 Query Match Best Local S Matches 585 . 19 241 266 386 420 480 98 206 326 361 446 506 301 121 181 g g g d ò a G ð g à Db ò qi. ò g ò à 셤 ò à 셤 ò à

Prostate cancer

Novel isolated prostate specific polypeptide useful for diagnosing, monitoring, staging, imaging, and treating and non-cancerous disease states in prostate.

Q10pp; English

Claim 1; Page 179;

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Racipon H,

Sun X, (DIAD-

WPI; 2002-47\216/50.

19-SEP-2000; 2000US-0233746P. SEP-2001; 2001WO-US029386

Adentifying,

rostate specific protein, PSP, prostate specific nucleic acid; transgenic; prostate cancer; gene therapy; transgenic animal;

prostate

PSNA; ss.

vaccine; Human;

WO200224718-A1 Homo sapiens.

28-MAR-2002

9 360 419 Trectitala de de la casa de la constanta de la contrata del contrata de la contrata de la contrata del contrata de la contrata del contrata de la contrata de la contrata de la contrata del contrata de la contrata del contrata de la contrata del contrata del contrata de la contrata del contrata de la contrata de la contrata de la contrata del contrata d 479 120 180 240 300 354 414 The invention relates to prostate specific proteins (PSP) and prostate specific nucleic acids (PSNA). Sequences of the Anvention are useful for identifying diagnosing monitoring, staging, imaging and treating prostate cancer and non-dancerous disease stayes in prostate. They are also useful for producing engineered prostate tissue for treatment and research. The PSNA sequences are used in gene therapy and for producing transgenic animals and cells. The invention is also used as vaccines. The present sequence is human PSNA CDNA 114 174 234 294 534 GOCTOGOCOTGTGCCTGNTCCCGCTTGTGAGGGAAGGACATTAGAAAATQAATTGATGTG aaaadgaadcacacaacaacccaagaaaaaccccaccaacaacaacaa CIGCTGAAATGGAGATAATTAACATCACTAGAAACAGCAAGATGACATTAAATGTCTAA GIAGRACATGITITITGCACATTTCCAGCCCCTTTAAATATCCACCACACAGAAGCAC TTGATGTG ecacartricreres crecyceccaceacacacacacarcrecarecares espec TGACTITACCATCIGAGGCCACACAT 115 TGATGATACAGAGAGAAAAAAAAAAGACTGCAGACTTTACCATCTGAGGCACACAT CTGCTGAAATG&AGATAATTAACATCACTAGAAACA&CAAGATGACAATATAATGTCTAA GACCAGGAAGATCTGCATGGTGGGAAGGACC **CCACACACACAGGAAGCAC FGGGTCATCGATGA** Gaps CAGATITIGAAATGAAGTCACAAGGGAATTACCAATGAGAGGAAAAACAGACGAGA 7; TTCCTTAAAGGAT-GGCAGGAAAACAGATCCTGTTGTGGATATTTATTTGAAC 355 eccreecererecerecececerérisitais Length 876; Z11 T; 0 U; 0 Other; Indels AAAAGGAAGCACAGATCCCTGGGAGAAATGCCCGGCCGCCAT ; DB 6; ..4e-147; CATGITITIGCACATITICCAGCCCITITAAATA 9 513.2; I TGATGATACAGAGGTG&ĞAAATAAGAAAGGC 07 G; GAGGG Pred. XVC 71.5%; Score ilarity 97.3%; Pred. Conservative 0; MX 1 GGAGATTTGTGTGGTTTGCAGO Sequence 876 BP; 275 A; 183 C; Query Match Best Local Similarity Matches 585; Conserv 181 GTAGTOM 415 361 420 241 475 175 235 301 61 121 ద 임 ò 엄 ò g  $\delta$ ద ठ à qq à 셤 ਨੇ ð

standard; cDNA; 876

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(first entry Pro123

23-SEP-2002 Human PSNA

CDNA,